KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A., mladshiy nauchnyy sotrudnik; YASHAN, I.A., aspirant.

Method and technic for surgery on the stapes in otosclerosis. Zhur. ush., nos. i gorl. bol. 20 no.1:17-31 Ja-F '60. (MIRA 14:5)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasl. deyatel' nauki prof. A.I.Kolomiychenko) Kiyevskogo instituta usovershenstvovaniya vrachey i surdologicheskoy laboratorii Kiyevskogo instituta ortopedii i travmatologii.

(OTOSCLEROSIS) (EAR—SURGERY)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki prof.

The 20th anniversary of the death of Mikhail IAkovlevich Kharshak.. Zhur. uzh., nos. i gorl. bol. 20 no.5:77-79 S-O '60. (MIRA 14:6)

(KHARSHAK, MIKHAIL IAKOVLEVICH, d. 1940)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.

Surgery of the stapes in otosclerosis. Zhur. ush., nos. i gorl. bol. 20 no.6:12-20 N-D '60. (MIRA 15:2)

1. Kiyevskiy institut usovershenstvovaniya vrachey.
(EAR--SURGERY) (OTOSCLEROSIS)

KOLOMIYCHENKO, ALEKSEY I.

"Our experiences of the surgical treatment of deafness in otosclerosis."

report submitted for the Seventh Intl. Congress of Otorhinolaryngology, Paris, 23-29 July 1961

Kiev, USSR

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki prof.; GUKOVICH, V.A.

Report on the activity of the Kiev Province Otolaryngological Society for 1960. Zhur. ush., nos. i gorl. bol. 21 no.1:93-96 Ja-F '61. (MIRA 14:6)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich).
(KIEV PROVINCE—OTOLARYNGOLOGICAL SOCIETIES)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A., mladshiy nauchnyy sotrudnik

Possible ranges in the use of surgery for mobilizing the stapes. Zhur. ush., nos. i gorl. bol. 21 no.5:6-12 S-O '61. (MIRA 15:1)

1. Iz Nauchno-issledovatel'skogo instituta otolaringologii (dir. - zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko).
(EAR--SURGERY)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.

"Diseases of the ear, throat and nose" by V.F.Undrits and others. Reviewed by A.I.Kolomiichenko. Zhur. ush., nos. i gorl. bol. 21 no.5:85-88 S-O '61. (MIRA 15:1)
(OTOLARYNGOLOGY) (UNDRITS, V.F.) (KHILOV, K.L.)
(LOZANOV, N.N.) (SUPRUNOVA, V.K.)

KOLOMIYCHENKO, A.I., prof., zasluzhennyy deyatel' nauki; YASHAN, I.A.

An account of the work of the Ukrainian Society of Otolaryngologists during 1960. Zhur. ush., nos. i gorl. bol. 21 no.5:91-96 S-O '61. (MIRA 15:1)

1. Predsedatel' Ukrainskogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). Ispolnyayushchiy obyazannosti sekretarya Ukrainskogo nauchnogo obshchestva otolaringologov (for Yashan).
(UKRAINE--OTOLARYNGOLOGICAL SOCIETIES)

KOLOMYCHENKO, Aleksey Isidorovich, prof.; SHEYNMAN, Naum solomonovich, kand. med. nauk; KHARSHAK, Ye.M., red.; CHUCHUPAK, V.D., tekhn. red.

[Atlas of tonal audiometric studies; a textbook for practicing physicians and students]Atlas tonal'nykh audiometricheskikh issledovanii; posobie dlia prakticheskikh vrachei i studentov. Kiev, Gosmedizdat USSR, 1962. 292 p. (MIRA 15:11)
(AUDIOMETRY)

KOLOMIYCHENKO, Aleksey Isidorovich; GUKOVICH, Valeriya Aleksandrovna; KHARSHAK, Yevgeniy Mikhaylovich; YASHAN, Ivan Artemovich; YEVDOSHCHENKO, Ye.A., red.; GITISHTEYN, A.D., tekhn. red.

[Operations on the stirrup in otosclerosis]Operatsii na stremeni pri otoskleroze. Pod obshchei red. A.I.Kolomiichenko. Kiev, Gosmedizdat USSR, 1962. 280 p. (MIRA 16:1)
(OTOSCLEROSIS) (TYMPANAL ORGAN--SURGERY)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A., kand.med.nauk

Report of the activity of the Kiev Province Scientific Society of Otolaryngologists for 1961. Zhur.ush., nos.i gorl.bol. 22 no.2:91-96 Mr-Ap '62. (MIRA 15:11)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich).
(KIEV PROVINCE--OTORHINOLARYNGOLOGICAL SOCIETIES)

KOLOMIYCHENKO, A.I., prof., zasluzhennyy deyatel' nauki, uchastnik VIII Mezhdunarodnogo protivorakovogo kongressa

Eighth International Cancer Research Congress. Zhur. ush., nos. i gor. bol. 22 no. 6:83-86 N-D'62. (MIRA 16:7)
(ONCOLOGY—CONGRESSES)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof. (Kiyev)

More frequently occurring complications in operations for stirrup mobilization and methods for their control. Zhur., ush., nos. i gorl. bol. 23 no.5:88-91 S-O'63 (MIRA 17:3)

KOLOMIYCHENKO, A.I., prof., Laureat Leninskoy premii, zasl. deyatel' nauki, red .; LUKOVSKIY, L.A., prof., red.; ZARITSKIY, L.A., prof., zasl. deyatel' nauki, red.; PITENKO, N.F., prof., red.; GLADKOV, A.A., prof., red.; KURILIN, I.A., prof., red.; MOSTOVOY, S.I., doktor med. nauk, red.; BARLYAK, R.A., prof., red.; SHPARENKO, B.A., dots., red.; ROZENGAUZ, D.Ye., dots., red.; KHARSHAK, B.M., dots., red.; CHERNOVA, I.A., kand.med. nauk, red.

[Current problems of clinical and experimental otolaryngology] Aktual'nye voprosy kliniko-eksperimental'noi otolaringologii. Kiev, Zdorov'ia, 1964. 350 p. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut otalaringologii. 2. Otdel profpatologii Nauchno-issledovatel'skogo instituta otolaringologii (for Pitenko).

KOLOMIYCHENKO, A.I., prof., zasluzhennyy deyatel' nauki; KENIG, P.P.

Materials on X-ray diagnosis of otosclerosis. Zhur. ush., nos. i gor. bol. 24 no.1:3-10 Ja-F '64. (MIRA 18:3)

1. Iz Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR.

KOLOMIYCHENKO, A. I., zasluzhennyy deyatel' nauki, prof. (Kiyev); KVITNITSKIY, ... Ye., kand. med. nauk (Kiyev)

Corticosteroid therapy in otolaryngology. Zhur. ush., nos. i gor. bol. 24 no.2:23-27 Mr-Ap '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut otolaringologii Ministerstva zdravookhraneniya UkrSSR.

KOLOMIYCHENKO, A.I., prof. zasluzhennyy deyatel' nauki; ZARITSKIY, L.A., prof. zasluzhennyy deyatel' nauki; SHVARTSBERG, Ya.A., prof. zasluzhennyy deyatel' nauki; PITENKO, N.F., prof.; MOSTOVOY, S.I., doktor med. nauk; TYTAR', G.M., otolaringolog.

Professor Leon Antonovich Lukovskii; 1903 - ; on his 60th birthday. Zhur. ush., nos. i gor. bol. 24 no.2:92-93 Mr-Ap '64 (MIRA 18:1)

IVANCHENKO, O.N., insh.; KURILOVA, A.A., insh.; KOLOMIYCHENKO, G.D., insh.

Coppering anf silvering of aluminum buses. Vest.elektroprom. 31 no.3:46-47 Mr '60. (MIRA 13:6)
(Electroplating) (Bus conductors (Electricity))

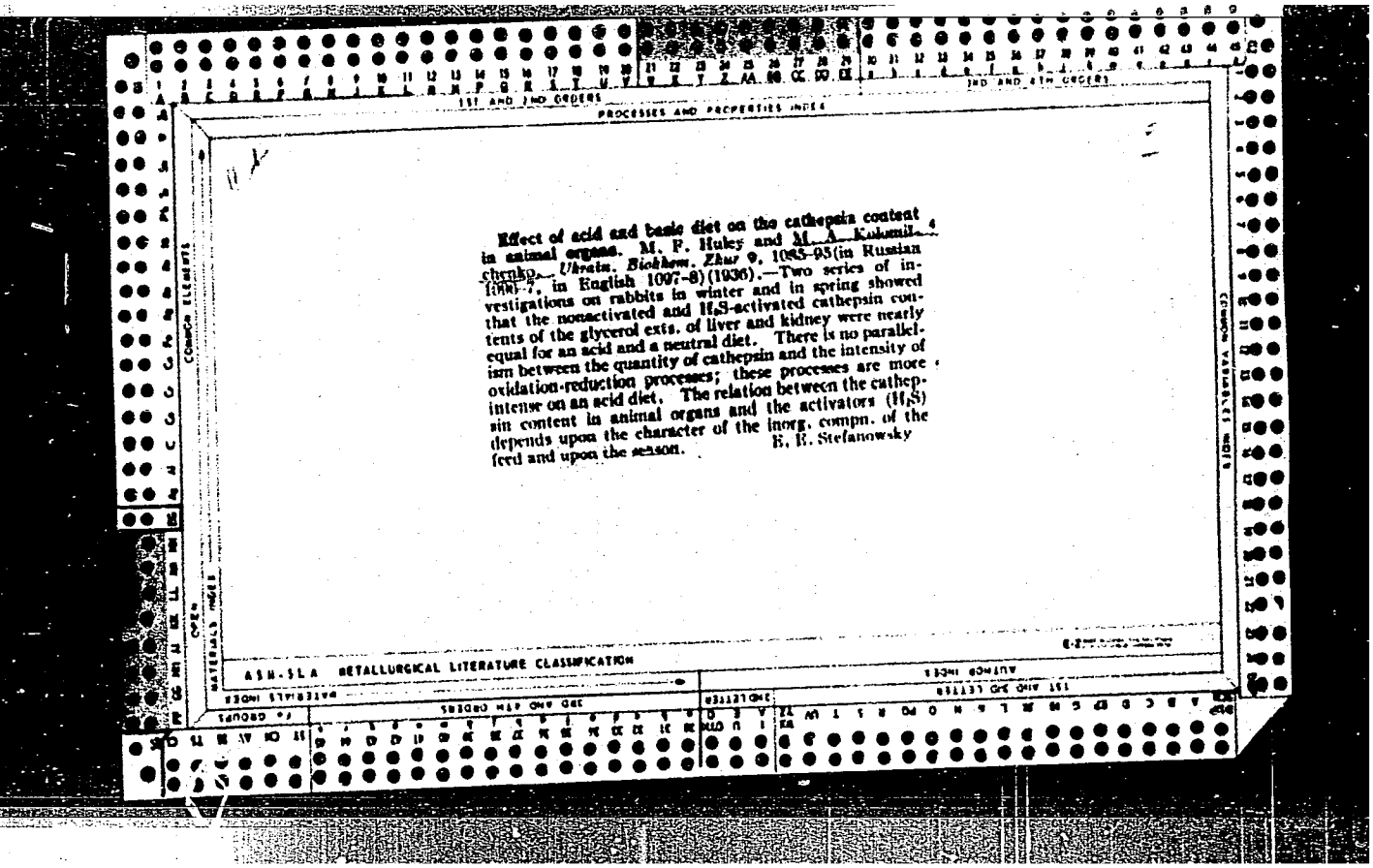
PETRICHENKO, I.P.; KOLOMYCHENKO, G.P.

Improved variant of an MI-1 M machine. Zav.lab. 31 no.3:333-388 '65. (MIRA 18:3)

1. Dnepropetrovskiy metallurgicheskiy institut.

SHUPIK, P.; LAVRIK, S.; SHUMADA, I.; LESHCHENKO, P.; MEDYANIK, R.; RADCHENKO, P.; PANCHENKO, V.; YESINENKO, L.; CHEBOTAREV, D.; BRATUS', V.; ISHCHENKO, I.; KOMISSARENKO, I.; KOLOMIYCHENKO, I.; MAKARCHENKO, A.; ARUTYUNOV, A.; SKRIPNICHENKO, D.; RODZAYEVSKIY, A.; PAVLENKO, K.; LEONENKO, K.; KOZYRENKO, N.; PARKHOMENKO, V.; CHEREN'KO, M.

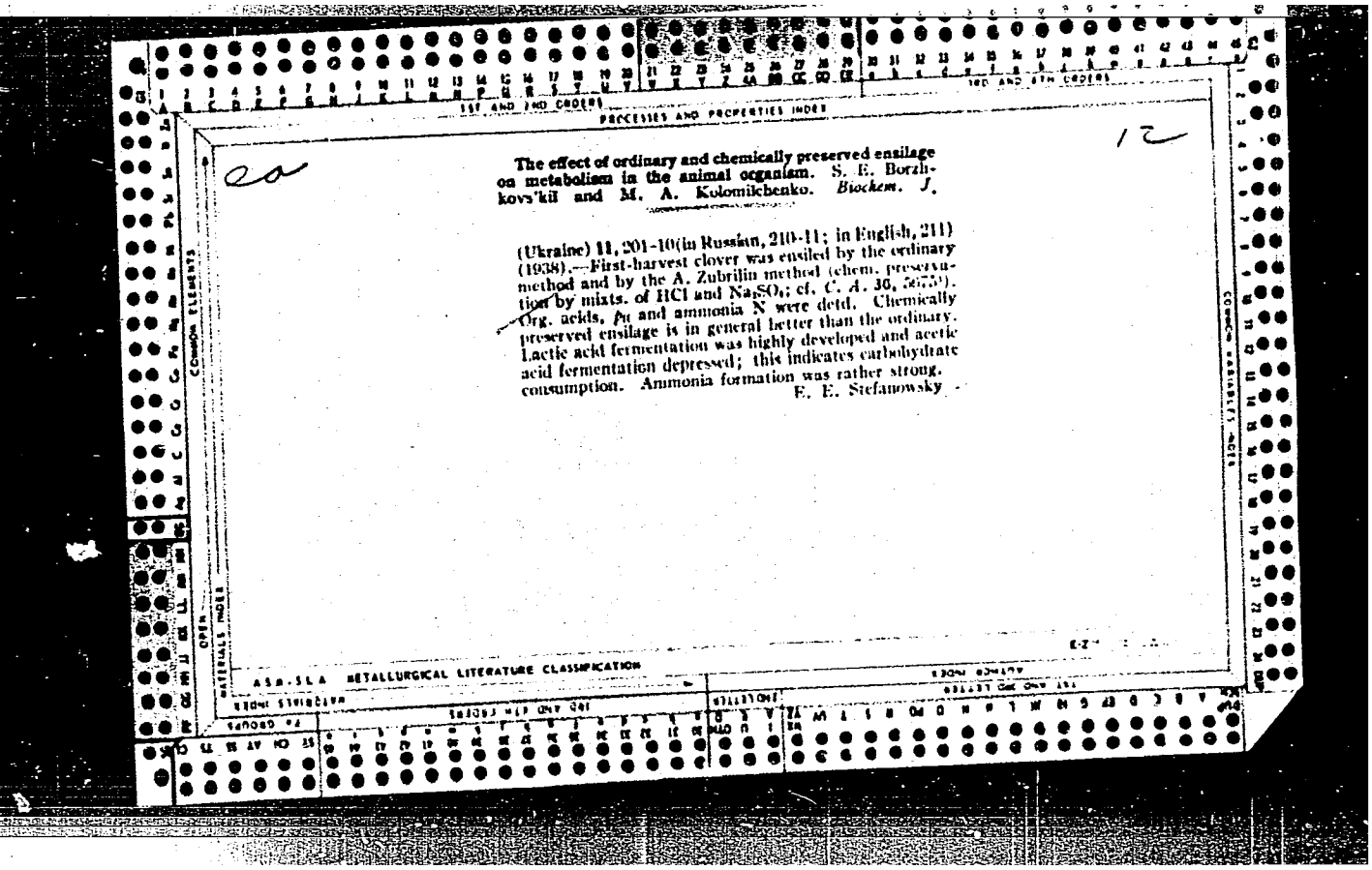
Aleksandr Kirillovich Gorchakov; obituary. Vrach. delo no.8:144-145 Ag '60. (MIRA 13:9)
(GORCHAKOV, ALEKSANDR KIRILLOVICH, 1900-1960)



PROCESSES AND PROPERTIES INDEX

Effect of acid and basic diet on the cathepsin content in animal organs. M. F. Huley and M. A. Kalamil-chenko. *Ukrain. Biokhem. Zhur* 9, 1085-95 (in Russian [RNB] 7, in English 1097-8) (1936).—Two series of investigations on rabbits in winter and in spring showed that the nonactivated and H_2S-activated cathepsin contents of the glycerol exts. of liver and kidney were nearly equal for an acid and a neutral diet. There is no parallelism between the quantity of cathepsin and the intensity of oxidation-reduction processes; these processes are more intense on an acid diet. The relation between the cathepsin content in animal organs and the activators (H_2S) depends upon the character of the inorg. compn. of the feed and upon the season. B. R. Stefanowsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



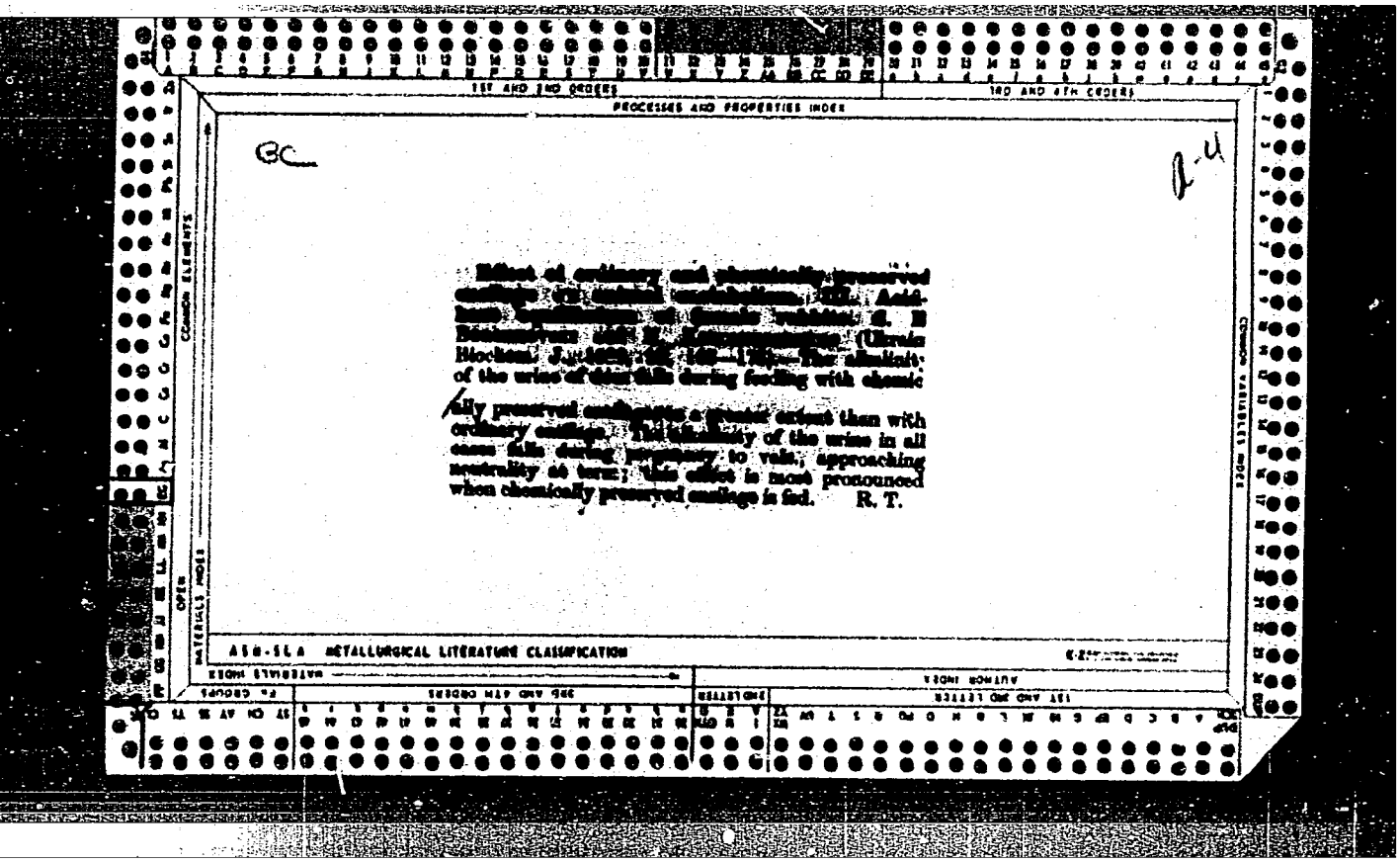
PROCESSES AND PROPERTIES INDEX

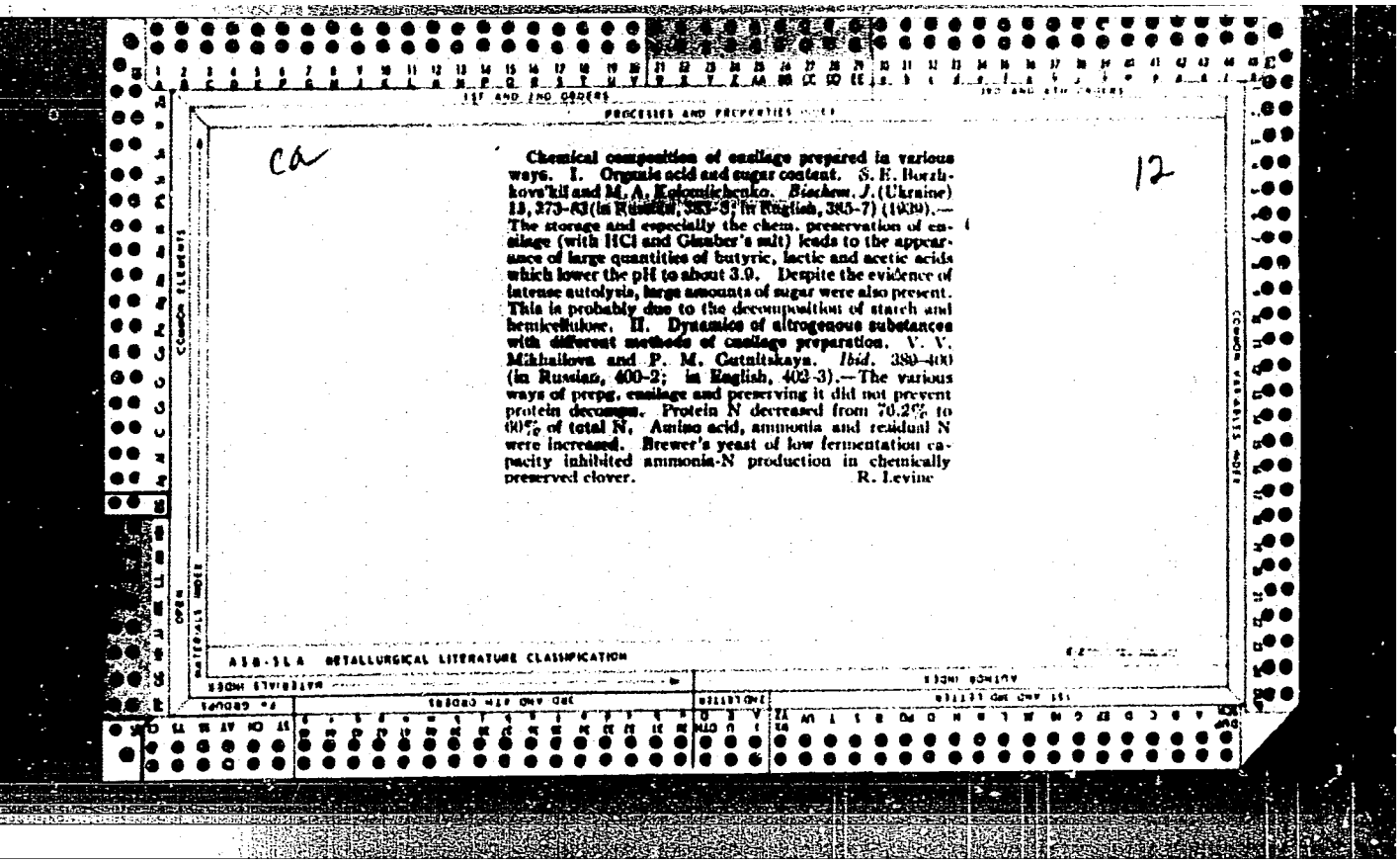
12

The effect of ordinary and chemically preserved ensilage on metabolism in the animal organism. S. E. Borzhkovs'kiĭ and M. A. Kolomiichenko. *Biochem. J.* (Ukraine) **11**, 201-10(in Russian, 210-11; in English, 211) (1938).—First-harvest clover was ensiled by the ordinary method and by the A. Zubrilin method (chem. preservation by mixts. of HCl and Na_2SO_3; cf. *C. A.* **30**, 2073). Org. acids, *fu* and ammonia N were detd. Chemically preserved ensilage is in general better than the ordinary. Lactic acid fermentation was highly developed and acetic acid fermentation depressed; this indicates carbohydrate consumption. Ammonia formation was rather strong.

E. E. Stefanowsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION





CA

12

Chemical composition of ensilage prepared in various ways. I. Organic acid and sugar content. S. E. Borzkhovo'kii and M. A. Kolomiichenko. *Biochem. J.* (Ukraine) 13, 373-83 (in Russian, 383-3; in English, 385-7) (1939).—The storage and especially the chem. preservation of ensilage (with HCl and Glauber's salt) leads to the appearance of large quantities of butyric, lactic and acetic acids which lower the pH to about 3.9. Despite the evidence of intense autolysis, large amounts of sugar were also present. This is probably due to the decomposition of starch and hemicellulose. **II. Dynamics of nitrogenous substances with different methods of ensilage preparation.** V. V. Mikhailova and P. M. Catnitskaya. *Ibid.* 389-400 (in Russian, 400-2; in English, 402-3).—The various ways of prepg. ensilage and preserving it did not prevent protein decompn. Protein N decreased from 70.2% to 60% of total N. Amino acid, ammonia and residual N were increased. Brewer's yeast of low fermentation capacity inhibited ammonia-N production in chemically preserved clover. R. Levine

A38-51A METALLURGICAL LITERATURE CLASSIFICATION

KOLOMIYCHENKO, M.A.

The role of hexosediphosphoric acid in esterification processes in muscle extracts. M. F. Galyt and M. A. Kolomiichenko (Inst. Biochem., Acad. Sci. Ukr.S.S.R., Kiev.). *Ukrain. Biokhim. Zhur.* 18, 231-63(in Russian, 263-4)(1946).—The esterification of inorg. P in the presence and absence of starch (I), adenylic acid (Ia), ICH_2COOH (II), phlorizin (III), was studied with hexosediphosphoric acid (IIIa) in muscle exts., which were poor in coenzymes and had undergone prolonged autolysis. The exts. were prepd. from the muscles of the back and hind legs of freshly killed rabbits. The first ext. with H_2O was discarded, after this several exts. were obtained by extg. with 0.25% K_2HPO_4. The expts. lasted 1-3 days and were done in a refrigerator in the presence of toluene. The final solns. were analyzed for Embden ester, Cori ester (IV), hexosemonophosphate, etc. IIIa, when being added to such exts. in the presence of I, raises the esterification of inorg. P 150 – 200% as compared to the phosphorolytic esterification in absence of IIIa. The esterification of inorg. P does not occur if IIIa is added to these exts. without I, or if IIIa and IV are used without I. The increased esterification of the inorg. P in the presence of IIIa and I is a phenomenon different from the activation of the phosphorolysis by means of Ia. This rate increase with I and IIIa is but little affected by II, but affected by III just the same as phosphorolysis. In the P esters formed in the presence of I and IIIa less hexosemonophosphoric acids are formed than in the case of phosphorolytic esterification, but in their place a corresponding amt. of IIIa forms. The formation of IIIa in the presence of I and IIIa occurs in exts. in which no lactic acid is formed, in which there is no oxidation-reduction, and which are not affected by high concns. of II. Werner Jacobson

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Biological Chemistry

KOLOMICHENKO, M. A.

26621 Gulyy, M. F. i dubavina. G. I. novyy put' prevrashcheniya azota ammiaka v aminoazot v tkanyakh zhivotnykh. - v ogl. 2-y avt: a. m. gulyy.ukr. biolhim. zhurnal, 1949, No. 2, s. 175-84.-na ukr, Yaz-Rezyume na rus. Yaz.-Bibliogr: 6 nazv.

SO: LETOPIS' NO. 35, 1949

[illegible]HENKO, M. A.

The nature of the interaction [illegible] and polysaccharide in the phosphorylase [illegible] and M. [illegible] Sci. [illegible] S. S. R. [illegible] 225-37 (in Russian, 237-8) (1949). — New evidence has been adduced indicating that polysaccharide enters into a union with the enzyme-protein of phosphorylase [illegible] constituent part [illegible] strongly inhibits the phosphorolytic [illegible] saccharide and [illegible] enhances the synthetic action of rabbit muscle [illegible] action of phosphoglucomutase [illegible] Mn ions counteract the inhibiting effect of As on the action of phosphoglucomutase. Hexosediphosphate, α-glycerophosphate, and phosphoglyceric acid enhance the activity of phosphorylase of rabbit muscle. [illegible]

1. KOLOMICHENKO, M.A.; HULYI, M.F.; DUBRAVINA, H.I.

2. USSR (600)

4. Amino Acids

7. Nature of amino acids formed during fixation of ammonia by liver extracts in the presence of citric acid, M.A. Kolomichenko, M.F. Hulyi, H.I. Dubravina, Ukr.biokhim. zhur. 24 no. 1, 1952.

9. **Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.**

KOLOMIYCHENKO, M.A.

...crystalliz... ...muscle ... phosphohexokinase activity, which in the presence of pro... $(NH_4)_2SO_4$ transfers PO_4 groups ... hos... ...ual ... in the cold from phosphate soln. ... in A, double pyramids. This fraction is ... obtained by the method of Baranova, J. (C. A. 45, 1410) ... and Dvorak (C. A. 48, 12215d). The ppt. ... at ... 0.55 satn. is the ... ppt. formed crystallizes out in the cold from the same ... ppt. formed crystallizes out in sheaves. At ... at 2-3 days as thin needles loosely gathered in sheaves. At 0.65 satn. a protein fraction is obtained which, when treated as above, forms crystals in the shape of long narrow and flat sticks. Crystn. and preservation is best accomplished at room temp.; the fraction possesses a high enolase activity. Above 0.65 satn. protein fractions are obtained which seemingly do not differ from the protein fraction of 0.60 satn.; their identity has not been detd. B. S. Levine

Inst. Biochemistry, AS USSR

KOLOMYCHENKO, M-A.

USSR

The enrichment of silage of different plant origin with organic nitrogenous compounds. M. F. Gulyi, M. A. Kolomiichenko, R. G. Degtyar, and K. I. Veresenko (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrais. Biokhim. Zhur.* 27, 76–80 (Russian summary, 80–2) (1955).—It was previously reported (cf. *Sotsialisticheskoe Zhivotnovodstvo* 7, 12, 1952) that in the process of the microbial silage fermentation added inorg. N salts are converted into org. N compds. of nutritive value, enriching the silage as an animal fodder. The new org. N compds. are mostly amino acids, amides, and the like. Regardless of the type of the NH_4 salt added to the silage the degree of its conversion into org. N compds. is about the same and depends upon the amt. added. The optimum was 1 kg. of N or 4.7 kg. of $(NH_4)_2SO_4$/ton of the given material. The silos were in the form of trenches of 100-ton capacity. Corn, sunflower, and sugar-beet-top silage with and without added $(NH_4)_2SO_4$, at 4.7 kg./ton, were studied. Under the usual conditions of silage fermentation (controls) the naturally occurring org. N substances were reduced during the fermentation process as follows: in corn silage 20.1%, in sunflower silage 8.8%, in sugar-beet-top silage 30.6%. The addn. of $(NH_4)_2SO_4$ at the rate indicated reduced such loss correspondingly to the following: 11.5, none, and 21.3%. The org. N substances converted from the NH_4-salt constituted admixt. of nutritive N compds. in the following percentages: corn silage 1.48%; sunflower 0.81%, and sugar-beet tops 3.01% on the dry-wt. basis.

B. S. Levine

KOLOMIYCHENKO, M. A.

"The Influence of Ultraviolet Irradiation of Certain Amino Acids," by M. A. Kolomiychenko, Ukr. Biokhim Zh., Vol 28 No 1, 1956, pp 95-105 (from Referativnyy Zhurnal -- Khimiya, Biologicheskaya Khimiya, No 18, 25 Sep 56, pp 9-10, Abstract No 17042)

A study of the effect of ultraviolet irradiation on solutions of amino acids in vitro indicated that, as a result of radiation, deamination of certain amino acids occurred in which histidine was deaminated to the greatest degree and tryptophan to the least. Under the effect of increasing doses of ultraviolet irradiation, substantial changes were observed in the characteristics of the spectra of phenylalanine and histidine.

Additional studies indicated changes of optical activity of amino acids (tyrosine, phenylalanine, tryptophan, histidine). Tryptophan absorbed the greatest amount of light and histidine the least.

Inst. Biochem, Acad. Sci Ukr. SSR, Kiev.

Sum 1274

KOLOMIYCHENKO, M. A.

The effect of ultraviolet rays on enzyme proteins. M. A. Kolomiichenko (Inst. Biochem., Acad. Sci. Ukrain. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 28, 164-74(in Russian, 174-6)(1956); cf. *C.A.* 50, 9405d.—Phosphatase was obtained as follows: rabbit skin was ground and extd. with 0.25% K_2HPO_4, dialyzed, and passed through No. 4 glass filter. Aldolase (myogen A) was similarly prepared from rabbit muscle tissue. Both types of exts. were exposed to the action of ultraviolet rays. Tests were then made for residual phosphatase and aldolase activity. It was demonstrated that inactivation (denaturation) of cryst. aldolase and phosphatase is preceded by changes in the physicochem. and biol. properties of the enzyme proteins. During the primary stages of exposure to the ultraviolet rays the enzyme activity of the exts. increases. Parallel to this there is observed an enhanced soly. of the protein exts., a lowered viscosity and a reduction in the no. of free reacting SH groups. Contrary to the case in chemical denaturation no noteworthy hydrolysis of the peptide compds. occurs. Cryst. aldolase subjected to small irradiation doses becomes more easily dispersed, and *vice versa*. Inactivation of the protein enzymes runs parallel to their loss in soly., increase in viscosity and the increase in the no. of free HS groups in the case of large-dose irradiation. In small-dose irradiation the conditions are completely reversed. B. S. L.

KOLOMIYCHENKO, M.A.

KOLOMIYCHENKO, M.A.

Changes in the molecular weight and catalytic activity of some proteins as induced by ultraviolet radiation [with summary in English]. Ukr.biokhim. zhur. 29 no.3:361-370 '57. (MLRA 10:9)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)
(PROTEINS)

KOLOMIYCHENKO, M.A. [Kolomiichenko, M.A.]

Protective action of some amino acids during ultraviolet inactivation of crystalline proteins [with summary in English]. Ukr.biokhim. zhur 30 no.5:669-677 '58 (MIRA 11:12)

1. Institut biokhimii AN USSR, Kiyev.
(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)
(CYSTEINE)
(HISTIDINE)

KOLOMIYCHENKO, M.A.

Changes in the physicochemical and biological properties of proteins successively exposed to different types of radiation [with summary in English]. Ukr.biokhim.zhur. 30 no.6:803-813 '58.
(MIRA 11:12)

1. Institut biokhimii AN USSR, Kiyev.
(RADIATION--PHYSIOLOGICAL EFFECT) (PROTEINS)

KOLOMIYCHENKO, M.A.; STASEVSKAYA, I.P. [Stasevs'ka, I.P.]

Reversible changes in the sulfhydryl groups of cysteine due to the effect of radiation energy. Ukr.biokhim.zhur. 32 no.3: 331-345 '60. (MIRA 13:6)

1. Institut of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(RADIATION--PHYSIOLOGICAL EFFECT) (CYSTEINE)
(MERCAPTO GROUP)

KOLOMIYCHENKO, M.A.; STASEVSKAYA, I.P. [Stasiev'ka, I.P.]

Effect of radiant energy on changes in the aldolase activity and sulfhydryl groups of myogen A. Ukr. biokhim. zhur. 32 no.5:645-654 '60. (MIRA 14:1)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(MYOGEN) (RADIATION--PHYSIOLOGICAL EFFECT)

KOLOMIYCHENKO, M.A. [Kolomiichenko, M.A.]

Changes of tyrosine, tryptophan and histidine under the action of ionizing and light radiation. Ukr. biokhim. zhur. 34 no.2:217-229 '62 (MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

KOLOMIYCHENKO, M.A.

Photochemical synthesis of amino acids. Ukr. biokhim. zhur. 36 no.2: 216-225 '64. (MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

KOLOMIYCHENKO, M.A.

Synthesis and conversion of amino acids and other organic compounds under the effect of radiations and other forms of energy. Ukr. biokhim. zhur. 36 no.1:132-155 '64. (MIRA 17:12)

1. Institut biokhimii AN UkrSSR, Kiyev.

KOLOMIYCHENKO, M.A.; MOROZOVA, R.P.

Quantitative changes in tryptophan, tyrosine and histidine in the composition of proteins irradiated with nuclear and light rays. Ukr. biokhim. zhur. 34 no.3:359-370 '62.

(MIRA 18:5)

1. Institut biokhimii AN UkrSSR, Kiyev.

KOLOMICHENKO, M. I.

USSR/Medicine - Chemotherapy Jan 1947

"The Treatment of Shock by L S Stern's Method of Introducing Potassium Phosphate into the Lymphatic System," M I Kolomichenko, 4 pp

"Byul Eksper Biol I Med" Vol XXIII, No 1

Summary of the method perfected by Academecian L S Stern.

1T53

KOLOMIYCHENKO, M. I. et al (other names bot given)

"In the Makarov Hospital"

Meditsinskiy Rabotnik, No 79 - 1407, 27 Sept 1955

KOLOMYICHENKO, M.I.

Summaries of papers presented at the XXVI Congress of Surgeons of the USSR, Moscow, 20 - 27 January 1955, included:

Ways of Reducing Lethality in Cases of Acute Intestinal Obstruction.

M. I. KOLOMYICHENKO

SOURCE: [redacted] A-46013 (Official Publication) Unclassified.

KOLOMIYCHENKO, M.I.

KOLOMIYCHENKO, M.I., zasl. deyatel' nauki prof. (Kiyev)

Achievements in surgery in the Ukrainian S.S.R. during 40 years of Sovet regime. Nov.khir.arkh. no.5:7-17 S-O '57. (MIRA 10:12)

1. Glavnyy khirurg Ministerstva zdravookhraneniya USSR.
(UKRAINE--SURGERY)

KOLOMIYCHENKO, M.I., professor, zasluzhennyy deyatel' nauki; NAZARENKO, A.N., kandidat meditsinskikh nauk

Ten years in the surgical treatment of goiter. Vrach.delo no.9: 923-927 S '57. (MLRA 10:9)

1. Kiyevskiy institut usovershenstvovaniya vrachey
(THYROID GLAND--SURGERY) (GOITER)

KOLOMIYCHENKO, M.I., zasluzhenny deyatel' nauki USSR, prof.

Principal results of the development of surgery in the Ukraine during the past forty years. Khirurgiia 33 no.8:3-11 Ag '57. (MIRA 11:4)
(SURGERY,
in Ukraine, progr.)

KOLOMIYCHENKO, M.I., prof., zasluzhennyy deyatel' nauki (Kiyev, ul. Reyterskaya, d.17 kv.6)

Diagnosis and clinical treatment of acute pancreatitis. Nov.khir. arkh. no.3:16-25 My-Je '58. (MIRA 11:9)
(PANCREAS--DISEASES)

KOLOMIYCHENKO, M.I., prof., zasluzhenny deyatel' nauki USSR.

Nikolai Markianovich Volkovich, eminent Ukrainian surgeon. Nov.khir. arkh. no.6:3-8 N-D '58. (MIRA 12:3)
(VOLKOVICH, NIKOLAI MARKIANOVICH, 1858-1928)

KOLOMIYCHENKO, M.I., prof., zasl. deyatel' nauki, glavnyy khirurg

Prospects for the development of surgery in the Ukrainian S.S.R. in the light of the decisions of the Twenty-first Congress of the CPSU. Nov. khir. arkh. no.2:3-10 Mr-Ap '59. (MIRA 12:7)

1. Ministerstvo zdravookhraneniya USSR.
(UKRAINE--SURGERY)

AKIMOV, V.I.; ALEKSEYENKO, I.P.; ALENT'YEVA, K.A.; AMOSOV, N.M.; ARUTYUNOV, A.I.; BRATUS', V.D.; VASHCHENKO, I.D.; GELLERMAN, D.S.; GRISHIN, M.A.; DANKEYEVA, T.N.; DENISOVA, A.G.; DOLGOVA, M.P.; IVANOV, N.A.; ISHCHENKO, I.N.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.; NAZAROVA, N.G.; NOVACHENKO, N.P.; PETRUNYA, S.P.; PKHAKADZE, A.L.; RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TATTSLIN, I.S.; TARTAKOVSKIY, B.S.; CHIZHONOK, P.I.; SHALABALA, M.P.; SHUMADA, I.V.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh. no.3:142-143 My-Je '59. (MIRA 12:10)
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

KOLOMIYCHENKO, M.I., prof., zasluzhennyy deyatel' nauki

Current state of surgical aid for the population of the Ukrainina Republic and future tasks. Sov.zdrav. 18 no.10:39-42 '59.
(MIRA 13:2)

1. Glavnyy khirurg Ministerstva zdravookhraneniya USSR.
(SURGERY OPERATIVE)

KOLOMIYCHENKO, M.I., prof. (Kiyev)

Nikolai Markianovich Volkovich; on the 100th anniversary of his birth. Fel'd i akush. 24 no.4:35-38 Ap '59.
(MIRA 12:5)
(VOLKOVICH, NIKOLAI MARKIANOVICH, 1858-1928)

KOLONIYCHENKO, M.I., prof., zasluzhennyy deyatel' nauki USSR

Problem of sutures in gastrointestinal surgery. Khirurgiia 35 no.10: 133-135 O '59. (MIRA 12:12)
(GASTROINTESTINAL SYSTEM surgery)

KOLOMIYCHENKO, M.I., prof. (Kiyev, Reyterskaya ul., 17, kv.6); KAZARENKO, A.N., kand. med. nauk

Early and late results of surgery for thyrotoxic goiter. Vest. khir. 82 no.6:24-30 Je '59. (MIRA 12:8)

1. Iz kliniki obshchey khirurgii (zav. - prof. M. I. Kolomiychenko) Kiyevskogo meditsinskogo instituta i khirurgicheskoy kliniki Kiyevskogo instituta usovershenstvovaniya vrachey.
(GOITER)

KOLOMIYCHENKO, M.I., zasluzhennyy deyatel' nauki, prof.

Great Soviet surgeon, Aleksei Petrovich Krymov; on the fifth anniversary of his death. Nov. khir. arkh. no.1:7-11 Ja-F '60. (MIRA 15:2)
(KRYMOV, ALEKSEI PETROVICH, 1872-1954)

KOLOMIYCHENKO, M.I., zasluzhennyy deyatel' nauki, prof. (Kiyev, ul. Reyterskaya, d.12, kv.6)

Pathogenesis and clinical aspects of hemorrhoids. Nov. khir. arkh. no.3:12-17 My-Je '60. (MIRA 15:2)
(HEMORRHOIDS)

KOLOMIYCHENKO, M. I., (Prof.) -- Kiev

"Assessment of Methods Used in the Treatment of Cardiospasm."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

ISHCHENKO, I.N., prof., zasluzhennyy deyatel' nauki, otv.red.; PARKHOMENKO, V.N., dotsent, red.; ALEKSEYENKO, I.P., dotsent, red.; BRATUS', V.D., dotsent, red.; KOLOMIYCHENKO, M.I., prof., zasluzhennyy deyatel' nauki, red.; NOVACHENKO, N.P., prof., zasluzhennyy deyatel' nauki, red.; FEDOROVSKIY, A.A., prof., red.; LEVCHUK, G.A., red.; LOKHMATYY, Ye.G., tekhred.

[Transactions of the Ninth Congress of Ukrainian Surgeons] Trudy IX s"yezda khirurgov Ukrainskoy SSR. Kiev, Gos.med.izd-vo USSR, 1960. 645 p. (MIRA 14:12)

1. S"yezd khirurgov Ukrainskoy SSR. 9th, Dnepropetrovsk, 1958. 2. Chlen korrespondent AN USSR (for Ishchenko). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Novachenko). (UKRAINE--MEDICINE, INDUSTRIAL) (PEPTIC ULCER) (PANCREAS--DISEASES) (SURGERY)

GORCHAKOV, A.K., prof. [deceased]; KOLOMIYCHENKO, M.I. (Kiyev)

Twenty-seventh All-Union Congress of Surgeons. Vrach. delo no.9: 145-148 S '60. (MIRA 13:9)

(SURGERY--CONGRESSES)

KOLOMIYCHENKO, M.I., zasluzhennyy deyatel' nauki, prof. (Kiyev)

"Investigators of the human body from Hippocrates to Pavlov" by H.Glaser. Reviewed by M.I.Kolomiichenko. Vrach. delo no.4:150-153 Ap '61. (MIRA 14:6)

1. Predsedatel' Pravleniya Ukrainskogo otdeleniya Obshchestva sovetsko-avstriyskoy druzhby.
(ANATOMY, HUMAN) (GLASER, H.)

KOLOMIYCHENKO, M.I., prof., zasl. deyatel' nauki (Kiyev)

Evaluation of the methods for treating cardiospasm. Nov.khir.arkh. no.4:3-10 '62. (MIRA 15:5)

(CARDIOSPASM)

KOLOMIYCHENKO, M.I., prof.; BAYEV, V.K., dotsent

Surgical treatment of pancreatic cysts. Khirurgiia 38 no.10: 81-89 O '62. (MIRA 15:12)

1. Iz kliniki obshchey khirurgii (zav. - prof.M.I. Kolomiychenko) Kiyevskogo meditsinskogo instituta imeni A.A. Bogomol'tsa.
(PANCREATIC CYSTS)

KOLOMIYCHENKO, Mikhail Isidorovich, zasl. deyatel' nauki USSR, prof.; FEDOSENKO, O.M., red.; KLOKOVA, S.M., tekhn. red.

[Live on, man; stories about surgery and surgeons]Zhyvy, liudyno; rozpovidi pro khirurgiiu ta khirurgiv. Kyiv, Vydvo "Molod', 1962. 167 p. (MIRA 15:9)

1. Zaveduyushchiy kafedroy khirurgii Kiyevskogo meditsinskogo instituta i rukovoditel' klinikoy Kiyevskoy bol'nitsy imeni Oktyabr'skoy revolyutsii (for Kolomiychenko).
(Surgery)

KOLOMIYCHENKO, M.I.

Outstanding representative of Russian surgery Vladimir Afanas'evich Karavaev; on the 150th anniversary of his birth. Khirurgiia no.3:131-134 '62. (MIRA 15:3)
(KARAVAEV, VLADIMIR AFANAS'EVICH, 1811-1892)

BRATUS', V.D., dots., otv. red.; AMOSOV, N.M., prof., red.; KOLOMIYCHENKO, M.I., prof., red.; FEDOROVSKIY, A.A., prof., red.; TUROVETS, I.G., prof., red.; KLOCHKOV, I.Ye., dots., red.; LEVCHUK, G.A., dots., red.; TRESHCHINSKIY, A.I., dots., red.; KOCHKOV, I.Ye., red.; CHUCHUPAK, V.D., tekhn.red.

[Problems of anesthesiology] Voprosy anesteziologii. Sbornik nauchnykh rabot, posviashchennyi 70-letiiu so dnia rozhdeniia chlena-korr. AN USSR, zasl. deiatelia nauki prof. I.N.Ishchenko. Kiev, Gosmedizdat USSR, 1963. 254 p. (MIRA 16:7)

1. Kiev. Medychnyi instytut.
(ISHCHENKO, IVAN NIKOLAEVICH, 1891-) (ANESTHESIOLOGY)

KOLOMIICHENKO, MIKHAIL Isidorovich +- 3005749

Prominent Ukrainian surgeon Mikhail Isidorovich Kolomiichenko; on his 70th birthday. Klin.khir. no.11:3-5 N '62. (MIRA 16:2)
(KOLOMIICHENKO, MIKHAIL ISIDOROVICH, 1892-)

FEDORENKO, Ye.G., prof., otv. red.; ZAYKO, N.N., prof., zam. otv. red.; OKHRIMENKO, Yu.M., red.; KOLOMIYCHENKO, M.S., zasl. deyatel' nauki Ukr.SSR prof., red.; SHAKHBAZYAN, G.Kh., prof., red.; IVANCHENKO, T.L., prof., red.; GURVICH, S.S., dots., red.; KRAVCHUK, M.I., dots., red.

[Philosophical problems in medicine and biology] Filosofskie voprosy meditsiny i biologii. Kiev, Zdorov'ia, 1965. 255 p. (MIRA 18:10)

1. Kiev. Medychnyi instytut. 2. Chlen-korrespondent AMN SSSR (for Shakhbazyan).

KOLOMIYCHENKO, O.I., prof., zasluzhennyy deyatel' nauki

Prevention and treatment of tonsillitis and tonsillar complications in children. Ped., akush. i gin. 22 no.6:3-7 '60. (MIRA 14:10)

1. Otorinolaringologicheskaya klinika (zaveduyushchiy - zasluzhennyy deyatel' nauki prof. O.I.Kolomiychenko) Kiyevskogo instituta usovershenstvovaniya vrachey (direktor - dotsent V.D.Bratus').
(TONSILS--DISEASES)

KOLOMIYCHENKO, V. V.

123-1-927

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p. 140 (USSR)

AUTHOR: Kolomiychenko, V. V.

TITLE: New Methods for Repairing Knuckle and Inner Bracket in Automatic Coupler (Novyye sposoby remonta shipa i polochki v korpuse avtostsepki)

PERIODICAL: Informats. pis'mo Vsesoyuzn.n.-i. Instituta zhel.-dor. transporta, 1955, Nr 321, p. 31

ABSTRACT: The technique of repairing knuckle lock pins in the automatic couplers is described. It is done by hard facing the defective pins by arc-welding with steel electrodes and machining it afterwards. Description of the installation for machining knuckle pins and the equipment for setting and checking the inner bracket of the knuckle in coupler head is given.

S.G.Ye.

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KOLOMIYCHENKO, Vasilii Vasil'yevich; SALENKO, S.V., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Organization and technology of the repair of automatic couplers; work practice of leading automatic coupler control points] Organizatsiia i tekhnologiia remonta avtostsepki; opyt raboty peredovykh kontrol'nykh punktov avtostsepki. Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 77 p. (MLRA 9:8)
(Car couplings)

KOLOMIYCHENKO, V.V., inzh.; LADYGIN, V.I.

Reducing the longitudinal clearances of the elements of automatic coupling systems. Vest.TSNII MPS 21 no.6:45-47 '62. (MIRA 15:9)

(Car couplings)

KOLOMIYCHENKO, V.V., starshiy nauchnyy sotrudnik

Maintenance and repair of automatic couplers of electric trains. Elek. i tepl. tiaga 7 no.3:14-15 Mr '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.
(Electric railroads—Rolling stock)
(Electric railroads—Maintenance and repair)

YEMEL'YANOV, N.P.; VEL'MIN, A.A.; KOLOMIYCHENKO, V.V.; KOROLEV, A.N., inzh., retsenzent; BRAYLOVSKIY, N.G., inzh., red.; KHITROVA, N.A., tekhn. red.

[Build-up welding of automatic-coupler parts using a laying lamellar electrode under flux] Naplavka detalei avtostsepki pod fliusom lezhachim plastinchatym elektrodom. Moskva, Transzheldorizdat, 1963. 44 p. (MIRA 16:10)
(Car couplings—Maintenance and repair)

KOLOMIYCHENKO, V.V., inzh.

Improving the methods for repairing automatic coupling systems.
Vest. TSNII MPS 24 no.4:28-31 '65. (MIRA 18:7)

Kolomiychenko, Ye.N.

KOLOMIYCHENKO, Ye.N. (Kiyev)

Clinical aspects and treatment of amebiasis. Vrach.delo supplement '57:72-73 (MIRA 11:3)

1. Institut infektsionnykh bolezney AMN SSSR.
(AMEBIASIS)

KOLOMIYCHENKO, Yu., inzh.

The main building of a concentration plant made of precast reinforced concrete. Prom.stroi.i inzh.soor. 4 no.5:24-28 S-O '62. (MIRA 16:1)
(Metallurgical plants—Design and construction)
(Precast concrete construction)

KOLOMIYCHUK, L.M.; SREDNIY, I.Ye., dots., red.

[Outline of lectures in a course on the theoretical principles of radio engineering, "The generator with transformer feedback"] Konspekt lektsii po kursu teoreticheskikh osnov radiotekhniki "Generator s transformatornoi obratnoi sviaz'iu. Odessa, Odesskii elektrotekhn. in-t sviazi, 1963. 21 p. (MIRA 17:9)

KOLOMIYCHUK, L.M.

Transfer functions of linear systems with three energy accumulators. Trudy ucheb. inst. aviazi no.14:15-30 '63. (MIRA 17:9)

1. Odesskiy elektrotekhnicheskiy institut svyazi.

KOLOMIYCHUK, L.M.

Determination of steady-state conditions and transfer functions of linear systems. Radiotekhnika 19 no.7:23-32 Jl '64.
(MIRA 17:12)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova.

24.2000

77130
SOV/70-4-6-31/31

AUTHORS: Regel', V. R., Urusovskaya, A. A., Kolomiychuk, V. N.

TITLE: Revealing Dislocation Patterns on Crystal Surfaces by Means of Etching. A Review

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 6, pp 937-955 (USSR)

ABSTRACT: This is a review of Soviet and foreign literature covering the period 1944 to 1959 inclusive, and dealing with etch pit formations. Forty-five investigated metals, metal alloys, minerals, and chemical compounds are correlated in a table with the etching agents used in the studies, and with the corresponding reference sources. The following etching agents not mentioned in the foreign literature were used in the Soviet studies: for etching germanium crystals, $K_3[Fe(CN)_6]$ + KOH [Ref 237]; for antimony, ionic bombardment [Ref 235, 236]; for cadmium, 2 pts. H_3PO_4 + 2 pts. glycerol + 2 pts. H_2O;

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electrolytic etching with 0.9-1.0 v current for 20 to 40 sec [Ref 225]; for sylvine (KCl); butvar [Ref 262]; for LiF, 3% hydrogen peroxide [Ref 226]; for calcite ($CaCO_3$), hydrochloric acid in various concentrations [Ref 168]. The first Soviet studies on detection of dislocations by means of etching and decoration were published in 1957. It was shown [Ref 150] that the strains around the dislocations determined optically agreed with those predicted theoretically. G. B, Rays [Ref 168] investigated etch pits in calcite crystals and correlated them with the dislocations. Dislocation nets in silver chloride crystals were also investigated [Ref 180]. The formation and movements of dislocations in LiF crystals subjected to plastic deformation and under the action of high temperature were studied, and it was shown that the mobility of the screw dislocations was higher than that of the edge dislocations [Ref 226]. Deformed NaCl crystals were investigated optically and interferometrically by means of selective etching [Ref 261]. Symmetrical and spiral Frank-Read

sources were revealed on etching cadmium crystals containing 0.01% zinc, and cinematographic pictures of the etching of these sources were taken, showing their distribution in the crystal [Ref. 249]. Frank-Read sources were also revealed in cadmium crystals by means of ionic bombardment, in much higher number than by the etching method [Ref 249]. Studies on etching zinc crystals [Ref 251, 257] helped to explain the discrepancy in the results obtained by J. J. Gilman [J. Metalls, 1956, Vol 8, Nr 8, pp 998-1004] and A. H. Meleka [Philos. Mag., 1956, Vol 1, Nr 9, pp 803-811]. By acting on the crystal surface with an alcohol solution of iodine, the latter obtained not etch pits but growth patterns, arranged not so much on the dislocations as on the uneven spots of the surface. The effect of bismuth admixtures on the density of the dislocations in germanium crystals was investigated [Ref 237]. Selective etching was used in the studies

Revealing Dislocation Patterns on Crystal Surfaces by Means of Etching. A Review

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of the translational origin of irrational twins in NaCl and LiF [Ref 242] and birefringent bends in zinc [Ref 260]. Other Soviet and related references are listed in the attached card. There is 1 table; and 264 references, 108 U.S., 75 U.K., 10 French, 6 Dutch, 1 Italian, 22 Japanese, 11 German, 2 Polish, 2 Czechoslovakian, 2 Hungarian, and 25 Soviet. The most recent U.S. and U.K. references are: L. R. Low, R. W. Guard, Acta Metallurgica, 7, 3, 171-179, 1959; T. H. Schofield, A. E. Bacon, ibid., 7, 6, 403-406, 1959; L. C. Lovell, J. H. Wernick. J. Appl. Phys., 30, 5, 1959; A. S. Parasnis, J. W. Mitchell, Philos. Mag., 4, 38, 171-179, 1959; J. Silcox, P. H. Hirsch, ibid., 4, 37, 72-89, 1959. Soviet and Related References: 118. I. Auleytner, K. Godwood, I. Krilov, Bull. de l'Acad. Polon., 5, 6, 639-642, 1957; 150. V. L. Indenbom, G. E. Tomilovskiy, Dokl. AN SSSR, 115, 4, 723-726, 1957; 151. B. Jeszenszky, Acta Phys. Acad. Scient. Hungar., 8, 147-160, 1957; 168. G. B. Rays, Dokl. AN SSSR, 117, 3, 419-422, 1957; 174. S. Yu., Atomnaya energiya, 3, 7, 70-72, 1957; 180. M. P. Shaskol'skaya, Yu. Kh.

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Revealing Dislocation Patterns on Crystal Surfaces by Means of Etching. A Review

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SOV/70-4-6-31/31

Vekilov, Kristallografiya, 2, 4, 548-551, 1957; 182. G. Zimonyi, Acad. Scient. Hungar., 8, 119-127, 1957; 187. J. Auleutner, B. Kotakowsky, Acta Phys. Polon., 17, 2-3, 93-96, 1958; 209. F. Kroupa, Chekh. fiz. zh., 8, 2, 186-195, 1958; 216. D. A. Petrov, Yu. M. Shashkov, V. I. Rozhdestvenskaya, Etching of Silicium Monocrystals. Proceedings of the Conference on the Metallurgy of Semiconductors (Travleniye kristallov kremniya. Sb. tr. Soveshchaniya po metallurgii poluprovodnikov) 1958; 218. V. G. Rakin, N. N. Buynov, Fiz. metallov i metallovedeniye, 6, 4, 686-691, 1958; 225. N. A. Tyapunina, A. A. Predvoditelev, Nauchn. dokl. vyssh. shkoly, 2, 1, 184, 1958; 226. A. A. Urusovskaya, Kristallografiya, 3, 1, 1958; 235. V. Ye. Yurasova, Zh. tekhn. fiz., 1958; 236. V. Ye. Yurasova, G. M. Protopopova, Kristallografiya, 3, 1958; 237. V. T. Alekseyeva, P. G. Yeliseyev, Fiz. tverdogo tela, 1, 8, 1304-1307, 1959; 242. V. L. Indenbom, A. A. Urusovskaya, Kristallografiya, 4, 1, 85-92, 1959;

Card 5/7

Revealing Dislocation Patterns on Crystal Surfaces by Means of Etching. A Review

77130
SOV/70-4-6-31/31

247. A. A. Predvoditelev, N. A. Tyapunina, Fiz. metallov i metallovedeniye, 7, 6, 855-861, 1959; 248. A. S. Bystrikov, Diplomnaya rabota, Kafedra molekulyarnoy fiziki, Fizfak, MGU, Moscow, 1959; 249. V. Ye. Yurasova, E. A. Pavlovskaya, N. A. Tyapunina, A. A. Predvoditelev, Fiz. metallov i metallovedeniye (in print); 250. V. G. Rakin, N. N. Buynov, Fiz. metallov i metallovedeniye, 7, 6, 939-943, 1959; 251. V. R. Regel', V. M. Stepanova, Kristallografiya, 4, 2, 226-234, 1959; 252. V. M. Stepanova, V. V. Prokrovskiy, V. R. Regel', Kristallografiya, 5, 1, 1960; 254. B. Sestak, On the Mechanism of Rendering Visible Dislocations on the Surface of Iron Crystals by Anodic Dissolving, Czechosl. J. Phys., 9, 3, 339-347, 1959; 256. G. V. Spivak, V. Ye. Yurasova, A. I. Klenova, T. A. Vlasova, Fiz. metallov i metallovedeniye, 7, 6, 893-898, 1959; 257. V. M. Stepanova, A. A. Urusovskaya, Kristallografiya,

Card 6/7

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C

ACCESSION NO: AP4012273 S/0070/64/009/001/0026/0031

AUTHORS: Dvoryankin, V. F.; Kolomiychuk, V. N.

TITLE: The effect of thermal movement of the hydrogen atom on the distribution of its potential

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 26-31

TOPIC TAGS: thermal movement, potential distribution, atomic thermal movement, hydrogen thermal movement, hydrogen potential

ABSTRACT: This is a completion of V. F. Dvoryankin's immediately preceding article (Kristallografiya, 9, 1, p. 20, 1964). The authors have used the function for distribution of potential for the hydrogen atom derived in the indicated paper, and they have made computations for different values of the isotropic temperature factor and different values of $(\frac{\sin\theta}{\lambda})_{max}$. The results are presented in several long tables. From these results the authors conclude that isotropic thermal movement of a hydrogen atom clearly affects its distribution of potential. With increase in the temperature factor, there occurs, first, a decline in the distribution function and, secondly, a "smearing" of the potential. Concerning the

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break in the Fourier series, this clearly affects the distribution of potential also. With increase in the temperature factor, the effect of this break declines. Decrease in temperature factor leads to increased distortion of the potential distribution, and diminution in the break may occur at lower temperatures. Cooling a sample, therefore, causes decrease in value of the temperature factor and increase in the value of $(\frac{\sin\theta}{\lambda})_{max}$. The problem lies in selecting the optimal conditions. Orig. art. has: 2 figures, 4 tables, and 7 formulas.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Institute of Inorganic Chemistry Siberian Department AN SSSR)

SUBMITTED: 15Jun63 DATE ACQ: 19Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 004

Card 2/2

KOLOMIYCHUK, V.N.; DVORYANKIN, V.F.

Electron diffraction determination of the position of hydrogen atoms in NH_4Br. Kristallografiia 9 no.1:50-56 Ja-F '64. (MIRA 17:3)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SOKOLOVSKIY, A., inzh.; KOLOMIYER, M., inzh.

Vibration rollers for packing asphalt concrete pavements.
Stroitel' no.9:19 '58. (MIRA 13:3)
(Road machinery)

MIKHAYLOV, B.M., konstruktor; KOLOMIYER, M.G., konstruktor.

New small-sized roller. Avt.dor. 19 no.1:24-25 Ja '56.(MLRA 9:5)
(Rollers (Earthwork))

RADIONENKO, V.P., inzh.; KOLOMIYER, M.G., inzh.

The D-317B vibrating roller. Stroi. i dor. mashinostr. 4 no.3: 21-22 Mr '59. (MIRA 12:4)
(Road rollers)

KOLOMIETS, M. A. KOLOMIYETS, A.A.

26525 Mekanizatsiya uborki ovoshchey. Sad i ogorod, 1949, No. 8, c. 51-54

SO: LETOPIS' NO. 35, 1949

KOLCHIYETS, A.A.

Vegetable Gardening

Mechanization in vegetable gardening. Sad i og. no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952, Uncl.

KOLOMIYETS, A.A., kand. sel'skokhozyaystvennykh nauk; STAKHANOV, A.P., inzh.; CHUCHUNKIN, P.P., mekhanik

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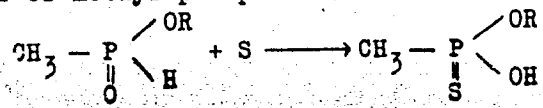
TITLE: Monoalkoxy-methyl Thiophosphonates and Monoalkoxy-methyl Phosphonites

PERIODICAL: Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 179 - 184

TEXT: In order to simplify the synthesis of the above compounds described in Refs. 1 - 4, the authors studied the addition reaction of sulfur to the monoesters of methyl phosphinic acid:



The rate of this reaction depends, above all, on the nature of the solvent to be applied. This reaction, for instance, proceeds rapidly and smoothly in dioxane, but does not take place at all in ether. Like dialkyl phosphites (Ref. 6), also alkyl phosphonites add sulfur in ethereal solution

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